

Scout Report sent out  
 Notes in the NID File  
 Location map pinned  
 Approval or Disapproval Letter  
 Date Completed, P. & A. or  
 operations suspended  
 Pin changed on location map  
 Affidavit and Record of A & P  
 Water Shut-Off Test  
 Gas-Oil Ratio Test  
 Well Log Filed

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5-13-59

*Submitted to water inspection well 5-12-63*

# FILE NOTATIONS

Entered in NID File	<input checked="" type="checkbox"/>	Checked by Chief	<input checked="" type="checkbox"/>
Entered On S R Sheet	<input checked="" type="checkbox"/>	Copy NID to Field Office	<input checked="" type="checkbox"/>
Location Map Pinned	<input checked="" type="checkbox"/>	Approval Letter	<input checked="" type="checkbox"/>
Card Indexed	<input checked="" type="checkbox"/>	Disapproval Letter	<input type="checkbox"/>
IWR for State or Fed Land	<input type="checkbox"/>		

## COMPLETION DATA

Date Well Completed	<u>5-5-59</u>	Location Inspected	<input type="checkbox"/>
C.M. <input checked="" type="checkbox"/>		Ready to Log	<input type="checkbox"/>
G.V. <input type="checkbox"/>		State of Fed Land	<input type="checkbox"/>

## LOGS FILED

Date Logged ☒  
 Electric Logs (No. ) 3  
 E. 1 B-I. 2 OR 2 OR-N. 2 Micro 2  
 Lat.        Mi-L.        Sonic        Other       

*Temperature Survey*

X		
	14	

(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Indian Agency .....

Window Rock

Allottee Navajo

Lease No. 14-20-693-370

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	X	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL		SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL			

NOT FOR PUBLIC  
INFORMATION

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

April 7, 1959

Navajo 'E'  
Well No. 21-14 is located 660 ft. from <sup>[N]</sup><sub>X</sub> line and 1980 ft. from <sup>[X]</sup><sub>[W]</sub> line of sec. 14

NE SW Sec. 14 41S 24E SL  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)

White Mesa San Juan Utah  
(Field) (County or Subdivision) (State or Territory)

The elevation of the ~~surface~~ above sea level is 4606 ft. Ungraded ground.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Propose to drill well to test Paradox formation at a depth of approximately 5650'.

Will set approximately 1300' of 8-5/8" surface pipe with cement circulated to surface.

Will set 5 1/2" casing through any commercial production encountered.

Verbal approval by P. T. McGrath, April 7, 1959.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company The Superior Oil Company

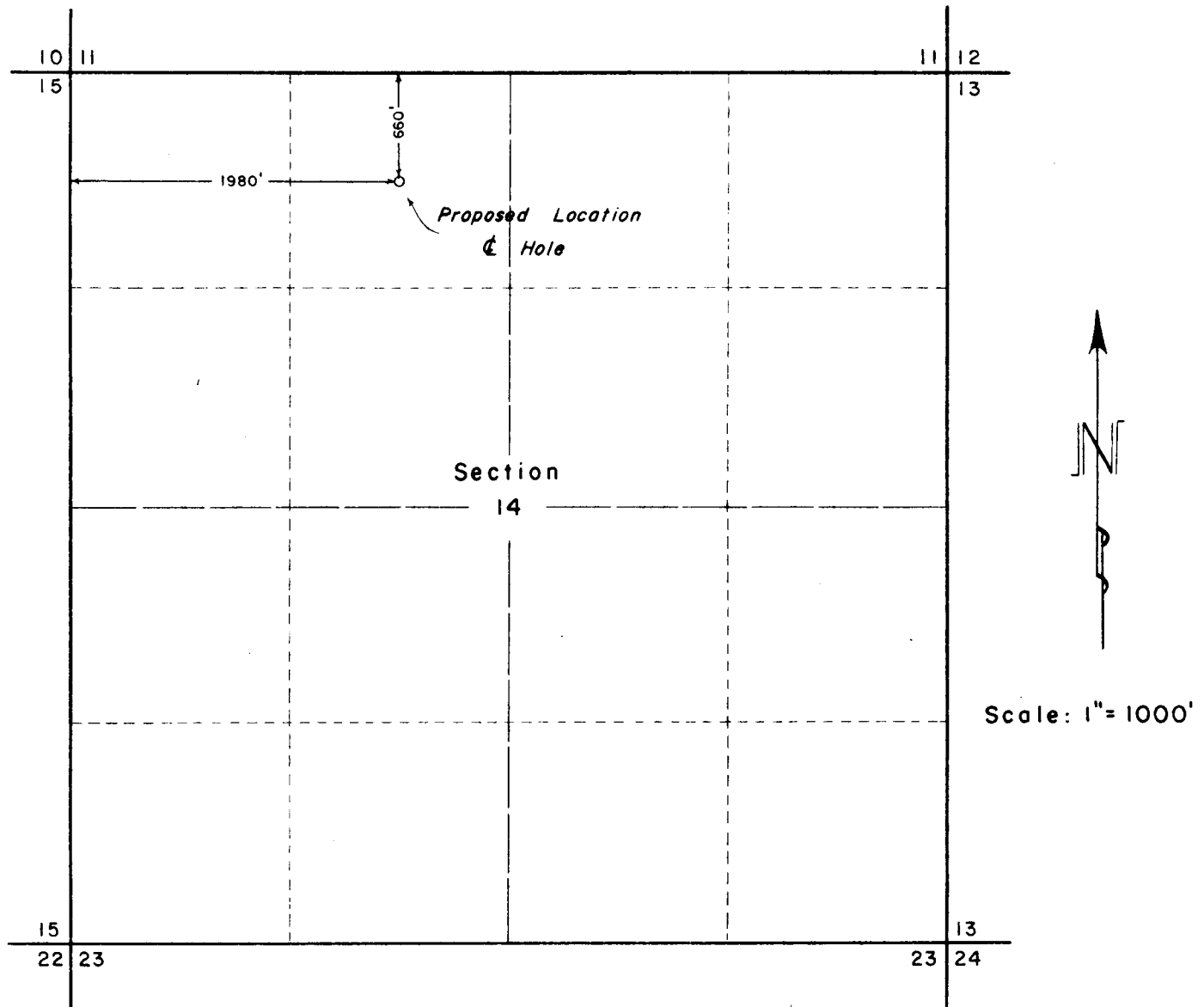
Address P. O. Drawer G

Cortez, Colorado

By D. D. Kingman

Title Engineer

# CERTIFICATE OF SURVEY



## WELL LOCATION: THE SUPERIOR OIL CO. NAVAJO "E" 21-14

Located 1980 feet East of the West line and 660 feet South of the North line of Section 14,  
Township 41 South, Range 24 East Salt Lake Meridian.

Existing ground elevation determined at 4606 feet.

I hereby certify the above plat represents a survey  
made under my supervision and is accurate to the  
best of my knowledge and belief.

*Elmer M. Clark*

ELMER M. CLARK  
Registered Land Surveyor  
State of Colo. (No. 2279)

PLANET ENGINEERS, INC.  
Durango, Colorado  
November 17, 1958

April 10, 1959

The Superior Oil Company  
P. O. Drawer G  
Cortez, Colorado

Attention: D. D. Kingman, Engineer

Gentleman:

This is to acknowledge receipt of your notice of intention to drill Well No. Navajo E 21-14, Which is to be located 660 Feet from the north line and 1980 feet from the west line of Section 14, Township 41 South, Range 24 East, SLBM San Juan County, Utah.

Please be advised that insofar as this office is concerned approval to drill said well is hereby granted.

This approval terminates within 90 days if the above mentioned well is not spudded in within said period.

Yours very truly,

OIL & GAS CONSERVATION COMMISSION

CLEON B. FEIGHT  
EXECUTIVE SECRETARY

CBF:cp

cc: Phil McGrath, Dist. Eng.  
U.S.G.S. Farmington,  
New Mexico



DALLAS, TEXAS  
POST OFFICE BOX 10185

May 14, 1959

Dallas: RI-2-2421  
Midland: MU-2-5522  
OX-4-5256  
Houston: HO-8-4663

Farmington, New Mexico:  
DA-5-6817  
DA-5-8476

NOT FOR PUBLIC  
INFORMATION

The Superior Oil Company  
Post Office Box 276  
Cortez, Colorado

Subject: Temperature Survey  
Navajo "E" NO. 21-14 Well  
White Mesa Field  
San Juan County, Utah  
Our File No. 5-356 T

Gentlemen:

On May 5, 1959, a temperature survey was made in subject well to locate the top of the cement.

The data obtained from this testing operation are presented on the following page in both graphical and tabular form.

It is a pleasure to be of service to you. Call again whenever we can be of any assistance.

Very truly yours,

DENNIS OWENS COMPANY

*Farrest Tefteller*  
Farrest Tefteller

FT:ler  
Attachment

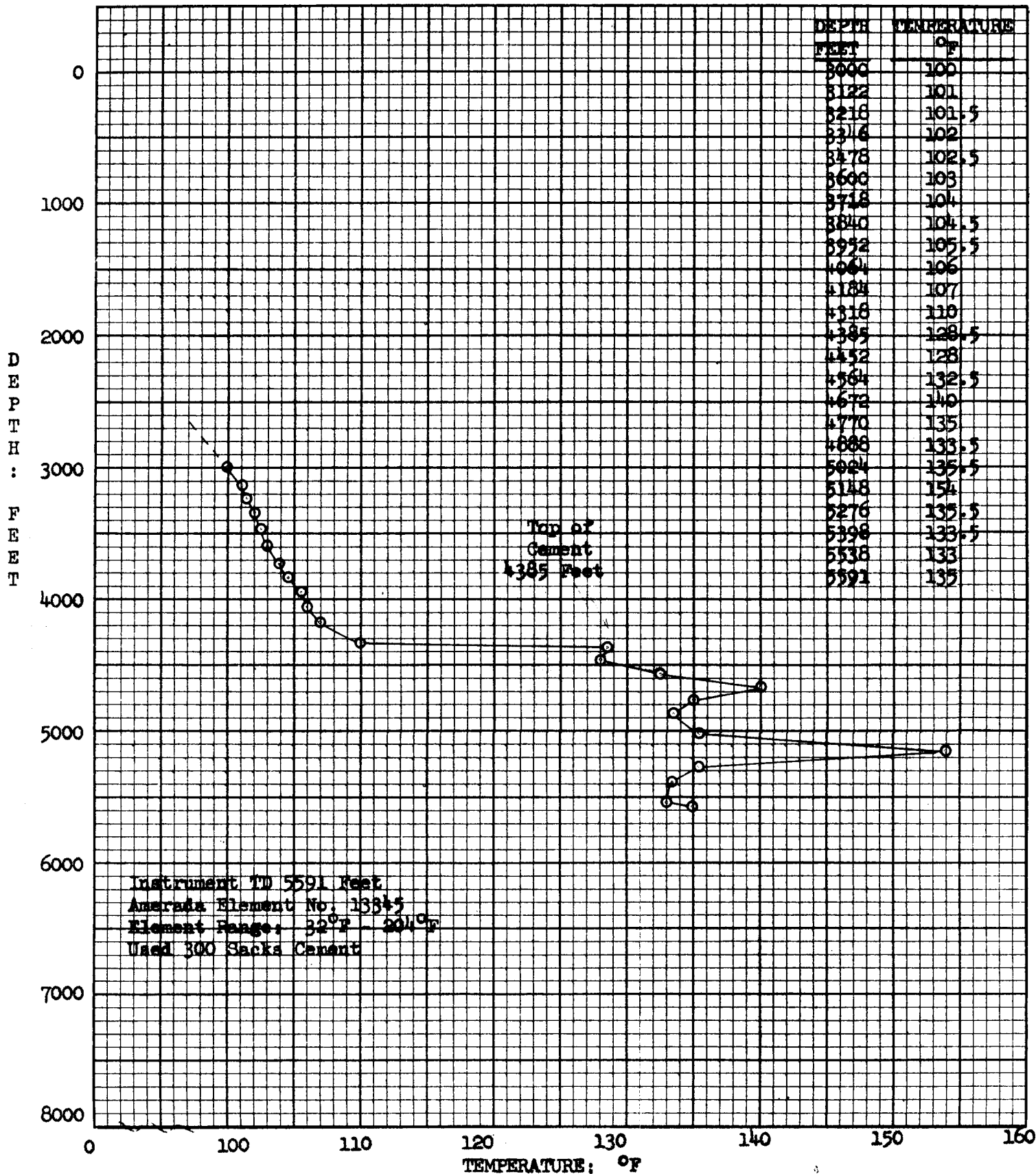
# TEMPERATURE SURVEY



Page 1 of 1  
File 5-356 T

DALLAS, TEXAS

Company THE SUPERIOR OIL COMPANY Lease NAVAJO "E" Well No. 21-14  
Field WHITE MESA County SAN JUAN State UTAH  
Formation \_\_\_\_\_ Test Date MAY 5, 1959



	X	
	14	

(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Indian Agency \_\_\_\_\_  
Window Rock \_\_\_\_\_  
Allottee **Navajo** \_\_\_\_\_  
Lease No. **14-20-603-370**

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY	X
NOTICE OF INTENTION TO ABANDON WELL		

NOT FOR PUBLIC  
INFORMATION

(INDICATE ABOVE BY CHECK MARK IN COLUMN OF REPORT, NOTICE, OR OTHER DATA)

May 18, 1959

Navajo 'E'  
Well No. **21-14** is located **660** ft. from **N** line and **1980** ft. from **E** line of sec. **14**  
**NE NW Sec. 14** **41S** **24E** **SL**  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)  
**White Mesa** **San Juan** **Utah**  
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is **4616** ft. **KB**

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate casing logs, cementing points, and all other important proposed work)

Spudded: **April 12, 1959**

Completed: **May 15, 1959**

I.D.: **5640'** P.B.T.D.: **5604'**

Casing: **13-3/8" 35.6# conductor pipe set @ 89' with 125 sacks.**  
**3-5/8" 24# surface pipe set @ 1204' with 500 sacks.**  
**5 1/2" 14# & 15.50# production string set @ 5640' with 300 sacks.**  
**Top of cement @ 4318' by temperature survey.**

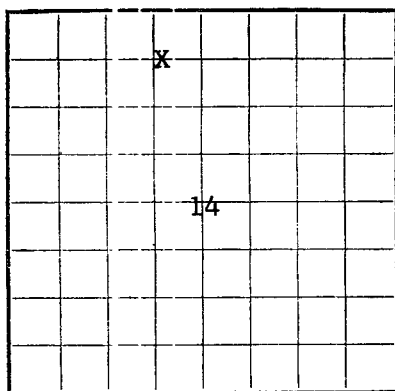
I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company **The Superior Oil Company**

Address **P. O. Drawer G**  
**Cortez, Colorado**

By **D. D. Kingman**  
**D. D. Kingman**

Title **Engineer**

U. S. LAND OFFICE Santa Fe  
SERIAL NUMBER 14-20-603-370  
LEASE OR PERMIT TO PROSPECT Navajo

LOCATE WELL CORRECTLY

UNITED STATES  
DEPARTMENT OF THE INTERIORNOT FOR PUBLIC  
GEOLOGICAL SURVEY  
INFORMATION

## LOG OF OIL OR GAS WELL

Company The Superior Oil Company Address P.O. Drawer G, Cortez, Colorado  
 Lessor or Tract Navajo 'E' Field White Mesa State Utah  
 Well No 21-14 Sec. 14 T. 41S R. 24E Meridian S1 County San Juan  
 Location 660 ft. XX of N Line and 1980 ft. XX of W Line of section 14 Elevation 4616 KB  
 (Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon  
 so far as can be determined from all available records.

Signed

D. D. Kingman  
D. D. KingmanDate May 18, 1959Title Engineer

The summary on this page is for the condition of the well at above date.

Commenced drilling April 12, 1959 Finished drilling May 5, 1959

## OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 5284 to 5426 No. 4, from \_\_\_\_\_ to \_\_\_\_\_  
 No. 2, from 5435 to 5608 No. 5, from \_\_\_\_\_ to \_\_\_\_\_  
 No. 3, from \_\_\_\_\_ to \_\_\_\_\_ No. 6, from \_\_\_\_\_ to \_\_\_\_\_

## IMPORTANT WATER SANDS

No. 1, from \_\_\_\_\_ to \_\_\_\_\_ No. 3, from \_\_\_\_\_ to \_\_\_\_\_  
 No. 2, from \_\_\_\_\_ to \_\_\_\_\_ No. 4, from \_\_\_\_\_ to \_\_\_\_\_

## CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
13-3/8"	35.67	Slip Joint	Amoco	89'					Conductor
8-5/8"	24.7	8-5/8"	8-5/8"	1204'					Surface
5-1/2"	16.5	5-1/2"	5-1/2"	5640'					5552-57'

## MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
13-3/8"	89'	125	circulated to surface.		
8-5/8"	1204'	500	Circulated to surface.		
5-1/2"	5640'	300	Pump & plug.		

## PLUGS AND ADAPTERS

Heaving plug—Material \_\_\_\_\_ Length \_\_\_\_\_ Depth set \_\_\_\_\_  
 Adapters—Material \_\_\_\_\_ Size \_\_\_\_\_

## SHOOTING RECORD



52 5640 500 Pump & plug.

## PLUGS AND ADAPTERS

Heaving plug—Material ..... Length ..... Depth set .....

Adapters—Material ..... Size .....

## SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

## TOOLS USED

Rotary tools were used from surface ..... feet to 5640 ..... feet, and from ..... feet to ..... feet

Cable tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet

## DATES

....., 19..... Put to producing ..... May 15....., 19 52

2½ hour test.

The production for the first 24 hours was 561 ..... barrels of fluid of which 99% was oil; .....% emulsion; 1% water; and .....% sediment. Gravity, °Bé. 38.6

If gas well, cu. ft. per 24 hours ..... Gallons gasoline per 1,000 cu. ft. of gas .....

Rock pressure, lbs. per sq. in. ....

## EMPLOYEES

....., Driller ..... R.W.Rine (rig #6) ..... Driller

....., Driller ..... Driller

## FORMATION RECORD

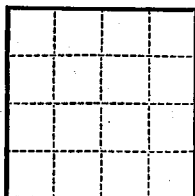
FROM—	TO—	TOTAL FEET	FORMATION
	Electric Log Tops:		
		2528'	De Chelly
		2688'	Organ Rock
		4462'	Hermosa
		5284'	Upper Boundary Butte
		5426'	Paradox Shale
		5435'	Lower Boundary butte
		5608'	Chimney Rock
		5640'	Total Depth
FROM—	TO—	TOTAL FEET	FORMATION

[OVER]

FORMATION RECORD—Continued

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Allettee **Tribal**  
**11-40-603-370**  
Lease No.



SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL		SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL			
<b>Notice of intention to squeeze</b>	<b>X</b>		

cement one section of (INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)  
Desert Creek casing perforations and convert to water injection.

Cortez, Colorado March 18, 1963  
Rutherford Unit (Formerly Superior Oil Co. Navajo "E" 21-14).

Well No. **E14-21** is located **640** ft. from **N** line and **1900** ft. from **E** line of sec. **14**  
**NE NW Sec. 14** **41S** **24E** **SLM**  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian) Utah  
**Greater Aneth** (Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is **4616** ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)  
Kill well, pull rods and tubing, run Halliburton 5VDC squeeze packer on wire line - set packer at 5533' (mid point of 23' separating perforations at 5512-21' and 5544-47'). Run stinger on work string of 2" tubing, set in packer and check for communication. If O.K. mix 50 sbs common cement and squeeze perforations 5544-47 and 5552-57' with maximum holding pressure of 1500#. Circulate out. Pull work string, rerun 2 1/2" Marlex lined tubing & Baker Tension packer - set packer at approximately 5390' and connect for water injection. If communication exists, spot 5 sbs cement (40') below packer, pull stinger out and up as high as possible without making connection. Pull braden head squeeze with remaining 45 sbs cement to maximum pressure of 1500#, minimum 1000#. After obtaining desired holding pressure, wash down to top of packer, circulate out until clean. Pull work string, reperforate Desert Creek zone 5442-68', 5512-21'. Rerun 2 1/2" Marlex lined tubing & Baker tension packer. Set packer at approximately 5390 and connect for water injection. Present production: Test 2/16/63: Pumping 30 BO, 73 MCF Gas, 0 water in 24 hours.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company **PHILLIPS PETROLEUM COMPANY**

Address **P. O. Drawer 1150**  
**Cortez, Colorado**

By **C. M. Boles**  
Title **District Superintendent**



PHILLIPS PETROLEUM COMPANY  
P. O. Drawer 1150  
Greeley, Colorado

May 14, 1963

Utah Oil & Gas Conservation Commission  
310 Newhouse Building  
Salt Lake City 11, Utah

Attention: Mr. Cleon B. Feight

Dear Sirs:

In accordance with Rule E-4 of the Utah General Rules and Regulations, we wish to advise that the following wells located on the Ratherford Unit in San Juan County, Utah, were converted to water injection wells.

<u>Old Well No.</u>	<u>New Well No.</u>	<u>Date Converted</u>	<u>Injection Rate</u>	<u>Injection Pressure</u>
28-21	28W21	5-10-63	370 BWPD	1800#
✓ E14-21	E14W21	5-12-63	736 BWPD	1050#

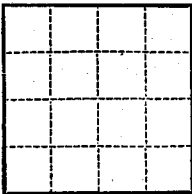
Details of the above conversions will be furnished on USGS Form No. 9-331b in the near future.

Yours very truly,

PHILLIPS PETROLEUM COMPANY

C. M. Boles  
District Superintendent

HGC/bh



*Copy H. L.*  
(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Form approved.  
Budget Bureau No. 42-R359.4.

Indian Agency

*Navajo*

Allottee

*Tribal*

Lease No.

*14-30-603-370*

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING OR REPAIR
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY
NOTICE OF INTENTION TO ABANDON WELL	<i>Subsequent Report to squeeze cement X</i>

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

*one section of Desert Creek casing perforations & convert to water inj.*

(Formerly Superior Navajo E21-14, &  
Rutherford Unit E14-21)

Cortez, Colorado

May 17

1963

Rutherford Unit

Well No. *E14W21*

is located

*660*

ft. from

*[N]*

line and

*1980*

ft. from

*[W]*

line of sec.

*14*

NE NW Sec. 14

*41S*

*24E*

*SLM*

(1/4 Sec. and Sec. No.)

(Twp.)

(Range)

(Meridian)

Greater Aneth

San Juan

Utah

(Field)

(County or Subdivision)

(State or Territory)

The elevation of the derrick floor above sea level is *4616* ft.

DETAILS OF WORK

*5-6-63 through 5-13-63* (State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)  
Set C.I. cement retainer at 5531'. Mixed 30 sks. neat cement, squeezed perforations 5544-47' and 5552-57' with 25 sks - max. pressure 3500#, holding pressure 3000#. Reversed out 5 sks. Pumped water into perforations above retainer 1-1/2 BPM at 1500#. Ran 2-1/2" tubing with Marlex liner and tension packer. Hooked up for water injection. Started injecting water at 3:30 PM 5-12-63. Changed well classification from oil well to water injection well and name from E14-21 to E14W21.

Previous Production: 23 BO, 81 MCF Gas, 0 water.

Present: Injected 736 BW in 24 hours at 1050#.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company *PHILLIPS PETROLEUM COMPANY*

Address *P. O. Drawer 1150*

*Cortez, Colorado*

By

*C. M. Boles*

Title

*Dist. Supt.*

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TWO COPIES  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> Water Injection Well		5. LEASE DESIGNATION AND SERIAL NO. 14-20-603-370
2. NAME OF OPERATOR Phillips Petroleum Company (Superior Oil Co.)		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo Tribal
3. ADDRESS OF OPERATOR P. O. Drawer 1150, Cortez, Colorado		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface NE NW Sec. 14 660' from North line and 1980' from West Line of Sec. 14		8. FARM OR LEASE NAME Rutherford Unit
14. PERMIT NO.		9. WELL NO. K14W21
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 4616 DF		10. FIELD AND POOL, OR WILDCAT Greater Aneth Field
		11. SEC., T., S., M., OR BLK., AND SURVEY OR AREA 14-T13S-R24E S14
		12. COUNTY OR PARISH San Juan Co.
		13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input checked="" type="checkbox"/>	ABANDON* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
(Other) <input type="checkbox"/>	

SUBSEQUENT REPORT OF:

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
(Other) <input type="checkbox"/>	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Acidize water injection well with 2000 gallons regular 15% acid, 250 gallons Sol Block, and 2000 gallons regular 15% acid to increase injection rate.

Present Injection Rate: 373 BWPD at 2610#.

18. I hereby certify that the foregoing is true and correct

SIGNED C. M. Boles

TITLE Area Superintendent

DATE 2-7-64

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN 1  
(Other instructions  
reverse side)

NOTE\*

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

14-20-603-370

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo Tribal

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Ratharford Unit

9. WELL NO.

EL4W21

10. FIELD AND POOL, OR WILDCAT

Greater Aneth Field

11. SEC., T., R., M., OR BLM. AND  
SURVEY OR AREA

14-T416-R24E1 SLM

1.

OIL WELL ☐ GAS WELL ☐ OTHER ☒ Water Injection Well

2. NAME OF OPERATOR

Phillips Petroleum Co.

3. ADDRESS OF OPERATOR

P. O. Drawer 1150, Cortez, Colorado

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)  
At surface

NE NW Sec. 14 660' from North Line and 1980' from East Line

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

4616 DF

12. COUNTY OR PARISH

San Juan

13. STATE

Utah

16.

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐

FRACTURE TREAT ☐

SHOOT OR ACIDIZE ☐

REPAIR WELL ☐

(Other) ☐

PULL OR ALTER CASING ☐

MULTIPLE COMPLETE ☐

ABANDON\* ☐

CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐

FRACTURE TREATMENT ☒

SHOOTING OR ACIDIZING ☐

(Other) ☐

REPAIRING WELL ☐

ALTERING CASING ☐

ABANDONMENT\* ☐

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

On 2-19-64 backflowed well, acidized Desert Creek with 2000 gallons regular acid, 250 gallons Sol Block, 2000 gallons regular acid. Backflowed load and acid, and hooked up and started injecting water.

Previous Injection Rate (Greater Aneth - Paradox, Desert Creek zone)  
Injected 384 BW in 24 hours at 2600#.

Present Injection Rate (Greater Aneth - Paradox, Desert Creek zone)  
Injected 276 BW in 24 hours at 2400#.

18. I hereby certify that the foregoing is true and correct

SIGNED

*C. M. Boles*

TITLE C. M. Boles, Area Supt.

DATE

3-9-64

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEYSUBMIT IN TRIPLICATE\*  
(Other instructions on reverse side)Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

14-20-603-370

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo

7. UNIT AGREEMENT NAME

SI-I-4192

8. FARM OR LEASE NAME

Hathorford Unit

9. WELL NO.

E14371

10. FIELD AND POOL, OR WILDCAT

Greater Aneth

11. SEC., T., R., M., OR BLK. AND  
SURVEY OR AREA

14-413-24E S.I.M.

12. COUNTY OR PARISH 13. STATE

San Juan

Utah

## SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)1. OIL WELL ☐ GAS WELL ☐ OTHER ☒ Water Injection Well

2. NAME OF OPERATOR

Phillips Petroleum Company

3. ADDRESS OF OPERATOR

Drawer 1150, Cortez, Colorado 81321

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)  
At surface

NE, NW Sec. 14 660' FWL; 1980' FWL

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

4616 DF

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

## NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐PULL OR ALTER CASING ☐FRACTURE TREAT ☐MULTIPLE COMPLETE ☐SHOOT OR ACIDIZE ☒ABANDON\* ☐REPAIR WELL ☐CHANGE PLANS ☐(Other) ☐

## SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐REPAIRING WELL ☐FRACTURE TREATMENT ☐ALTERING CASING ☐SHOOTING OR ACIDIZING ☐ABANDONMENT\* ☐(Other) ☐(NOTE: Report results of multiple completion on Well  
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Acidize water injection well with 6000 gallons 28% in 2 stages to improve water receptivity.

Previous Injection Rate: 84 BWPD at 2535#.

18. I hereby certify that the foregoing is true and correct

SIGNED C. M. BolesTITLE Dist. Supt.DATE 10-14-68

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

Copies: Orig &amp; 2 cc: USGS, Farmington, N.M.

2 cc: Utah O&amp;GCC, SLIC, Utah

1 cc: Bville

1 cc: Denver

1 cc: File

\*See Instructions on Reverse Side

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEYSUBMIT IN TRIPLICATE\*  
(Other instructions on reverse side)Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

14-20-603-370

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo

7. UNIT AGREEMENT NAME

SW-I-4192

8. FARM OR LEASE NAME

Rutherford Unit

9. WELL NO.

E14M21

10. FIELD AND POOL, OR WILDCAT

Greater Aneth

11. SEC., T., R., M., OR BLK. AND  
SURVEY OR AREA

14-413-243 SW

12. COUNTY OR TERRITORY

San Juan

13. STATE

Utah

SUNDRY NOTICES AND REPORTS ON WELLS  
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)1. OIL ☐ GAS ☐ OTHER ☒  
WELL ☐ WELL ☐ **Water Injection Well**2. NAME OF OPERATOR  
**Phillips Petroleum Company**3. ADDRESS OF OPERATOR  
**Drawer 1150, Cortez, Colorado 81321**4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)  
At surface**NE, NW Sec. 14 660' FHL; 1900' FHL**

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

4616 HF

## 16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

## NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐FRACTURE TREAT ☐SHOOT OR ACIDIZE ☐REPAIR WELL ☐(Other) ☐PULL OR ALTER CASING ☐MULTIPLE COMPLETE ☐ABANDON\* ☐CHANGE PLANS ☐

## SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐FRACTURE TREATMENT ☒SHOOTING OR ACIDIZING ☐(Other) ☐REPAIRING WELL ☐ALTERING CASING ☐ABANDONMENT\* ☐

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

On October 30, 1968 acidized Desert Creek perforations 5442-68 and 5515-21' through 2-7/8" steel tubing with Marlex liner with 6000 gallons 28% acid in 2 equal stages with 1000 gallons salt plug between stages. Hooked back up and resumed injection.

PREVIOUS INJECTION RATE: 84 BWPD in 24 hours at 2535#.

PRESENT INJECTION RATE: 172 BWPD at 2600#.

18. I hereby certify that the foregoing is true and correct

SIGNED

C. M. Bolen

TITLE

District Superintendent

DATE

11-21-68

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

Orig. &amp; 2 cc: USGS, Farmington, N.M.

2 cc: Utah O&amp;GCC, SLC, Utah

1 cc: Bville

\*See Instructions on Reverse Side

1 cc: Denver

1 cc: Superior, Cortez 1 cc: File



STATE OF UTAH  
DIVISION OF OIL, GAS, AND MINING  
ROOM 4241 STATE OFFICE BUILDING  
SALT LAKE CITY, UTAH 84114  
(801) 533-5771  
(RULE I-5 & RULE I-4)

FORM NO. DOGM-UIC-1  
(Revised 1982)

IN THE MATTER OF THE APPLICATION OF  
PHILLIPS PETROLEUM COMPANY  
ADDRESS P.O. BOX 2920  
CASPER, WYOMING ZIP 82602  
INDIVIDUAL PARTNERSHIP ☒ CORPORATION  
FOR ADMINISTRATIVE APPROVAL TO DISPOSE OR  
INJECT FLUID INTO THE E14W21 WELL  
SEC. 14 TWP. 41S RANGE 24E  
SAN JUAN COUNTY, UTAH

CAUSE NO. C-3(B)

ENHANCED RECOVERY INJ. WELL ☒  
DISPOSAL WELL ☐  
LP GAS STORAGE ☐  
EXISTING WELL (RULE I-4) ☒

APPLICATION

Comes now the applicant and shows the Corporation Commission the following:

1. That Rule I-5 (g) (iv) authorizes administrative approval of enhanced recovery injections, disposal or LP Gas storage operations.
2. That the applicant submits the following information.

Lease Name Ratherford Unit	Well No. E14W21	Field Greater Aneth	County San Juan
Location of Enhanced Recovery Injection or Disposal Well E14W21 Sec. 14 Twp. 41S Rge. 24E			
New Well To Be Drilled Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Old Well To Be Converted Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Casing Test Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Date 5-83	
Depth-Base Lowest Known Wingate Fresh Water Within 1/2 Mile 1550'	Does Injection Zone Contain Oil-Gas-Fresh Water Within 1/2 Mile YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>		State What Oil & Gas
Location of Injection Source(s) Desert Creek Paradox I & II San Juan River	Geologic Name(s) Desert Creek (5567') and Depth of Source(s) San Juan River (Surface)		
Geologic Name of Injection Zone Desert Creek I	Depth of Injection Interval 5442 to 5521		
a. Top of the Perforated Interval: 5442	b. Base of Fresh Water: 1550'	c. Intervening Thickness (a minus b) 3892	
Is the intervening thickness sufficient to show fresh water will be protected without additional data? YES NO See Attachment #4			
Lithology of Intervening Zones See Attachment #1			
Injection Rates and Pressures SD 2-1-81 Maximum B/D PSI			
The Names and Addresses of Those to Whom Notice of Application Should be Sent.			
Navajo Tribe, Minerals Dept., P.O. Box 146, Window Rock, AZ 86515			
Superior Oil, P.O. Box 4530, The Woodlands, TX 77380			
Texaco Inc., P.O. Box 2100, Denver, CO 80201			
Southland Royalty, 1000 Fort Worth Club Tower, Fort Worth, TX 76102			

State of Wyoming )  
County of Natrona )

PHILLIPS PETROLEUM COMPANY

Applicant

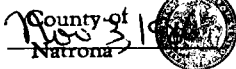
Before me, the undersigned authority, on this day personally appeared A. E. Stuart  
known to me to be the person whose name is subscribed to the above instrument, who being by me duly sworn on  
oath states, that he is duly authorized to make the above report and that he has knowledge of the facts stated  
therein, and that said report is true and correct.

Suscribed and sworn to before me this 21st day of Sept, 19 83

SEAL

DONALD L. HUDSON - Notary Public

My commission expires



State of  
Wyoming

Notary Public in and for Natrona Co., Wyoming

My Commission Expires Nov 01 1984

1. Attach qualitative and quantitative analysis of representative sample of water to be injected and a qualitative and quantitative analysis of the injection formation of water.
2. Attach plat showing subject well and all known oil and gas wells, abandoned, drilling and dry holes within one-half mile, together and with the name of the operator(s).
3. Attach Drillers Log (Form DOGM-UIC-2). (Appropriate Surety must be on file with Conservation Division or appropriate government agencies.)
4. Attach Electric or Radioactivity Log of Subject well (if released).
5. Attach schematic drawing of subsurface facilities including; Size, setting depth, amount of cement used measured or calculated tops of cement surface, intermediate (if any) and production casings; size and setting depth of tubing; type and setting depth of packer; geologic name of injection zone showing top and bottom of injection interval.
6. If the application is for a NEW well the original and six (6) copies of the application and three (3) complete sets of attachments shall be mailed to the Division. For EXISTING well applications (Rule I-4) only ONE copy of the application and ONE complete set of attachments are required to be mailed to the Division.
7. The Division is required to send notice of application to the surface owner of the land within one-half mile of the injection well and to each operator of a producing leasehold within one-half mile of the injection well. List all required names and addresses in the appropriate space provided on the front of this form.
8. Notice that an application has been filed shall be published by the Division in a newspaper of general circulation in the county of publication before the application is approved. The notice shall include the name and address of applicant, location of proposed injection or disposal well, injection zone, injection pressure and volume. If no written objection is received within 15 days from date of publication the application may be approved administratively.
9. A well shall not be used for injection or disposal unless completed machine accounting Form DOGM-UIC-3b is filed by January 31st each year.
10. Approval of this application, if granted, is valid only as long as there is no substantial change in the operations set forth in the application. A substantial operation change requires the approval of a new application.
11. If there is less intervening thickness required by Rule I-5 (b) 4, attach sworn evidence and data.
12. For enhanced recovery projects, information required by Rule I-4 which is common to more than one well, need be reported only once on the application.

**CASING AND TUBING DATA**

NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
Surface	13-3/8	89	125	Surface	Returns
Intermediate	8-5/8	1204	500	surface	Returns
Production	5-1/2	5640	300	4316	Temp Survey
Tubing	2-1/2	5344.77	Baker Name - Type - Depth of Tubing Packer Model A Tension Pkr 5344.77		
Total Depth		Geologic Name - Inj. Zone	Depth - Top of Inj. Interval	Depth - Base of Inj. Interval	
PBSD 5604		Desert Creek I	5442	5521	

(To be filed within 30 days after drilling is completed) 14-20-603-370

DEPARTMENT OF NATURAL RESOURCES AND ENERGY

LEASE NO.

API NO. 43-037-16408

640 Acres  
N

DIVISION OF OIL, GAS, AND MINING  
Room 4241 State Office Building  
Salt Lake City, Utah 84114

COUNTY San Juan SEC. 14 TWP. 41S RGE. 24E

COMPANY OPERATING Phillips Petroleum Company

OFFICE ADDRESS P.O. Box 2920

TOWN Casper STATE WY ZIP 82602

FARM NAME -- WELL NO. E14W21

DRILLING STARTED 4-12-59 DRILLING FINISHED 5-12-59

DATE OF FIRST PRODUCTION 5-14-59 COMPLETED 5-13-59

WELL LOCATED NE 1/4 NW 1/4

660 FT. FROM 1/4 OF 1/4 SEC. & 1980 FT. FROM WL OF 1/4 SEC.

RKB ELEVATION BERRICK FLOOR 4616 GROUND 4605

TYPE COMPLETION

Single Zone X

Multiple Zone --

Comingled --

LOCATION EXCEPTION

OIL OR GAS ZONES

Name	From	To	Name	From	To
Desert Creek I	5442	5521			
Desert Creek II	5544	5557			

CASING & CEMENT

Casing Set				Cog. Test	Cement		
Size	Wgt.	Grade	Feet	Psi	Sax	Fillup	Top
13-3/8	35.6	H-40	92.46	Notest	125		Surface
8-5/8	24	J-55	1206.21	1200	500		Surface
5-1/2	14	J-55	5647.97	1550	300		4316
	15.50						

PBTD 5604

TOTAL DEPTH 5640

PACKERS SET Baker Model A Tension Pkr @ 5344.77

DEPTH

NOTE: THIS FORM MUST ALSO BE ATTACHED WHEN FILING PLUGGING FORM DOGM-UIC-6

COMPLETION & TEST DATA BY PRODUCING FORMATION

FORMATION	Desert Creek I		
SPACING & SPACING ORDER NO.	40 acre Cause #C-3(B)		
CLASSIFICATION (DISPOSAL WELL, ENHANCED RECOVERY, LP GAS STORAGE)	Enhanced Recovery		
PERFORATED	5442-68 5515-21		
INTERVALS			
ACIDIZED?	10-30-68 6000 gal 28% acid		
FRACTURE TREATED?	No		

INITIAL TEST DATA

Date	5-13-63		
Oil, bbl./day	--		
Oil Gravity	--		
Gas, Cu. Ft./day	-- CF	CF	CF
Gas-Oil Ratio Cu. Ft./Bbl.	--		
Water-Bbl./day	736		
Pumping or Flowing	pumping		
CHOKE SIZE	--		
FLOW TUBING PRESSURE	1050		

A record of the formations drilled through, and pertinent remarks are presented on the reverse.  
(use reverse side)

I, the undersigned, being first duly sworn upon oath, state that this well record is true, correct and complete according to the records of this office and to the best of my knowledge and belief.

Telephone 307-237-3791

A.E. Stuart, Area Manager

Name and title of representative of company

Subscribed and sworn before me this SEP 22 1963 day of SEP 22 1963

Casper

WELL: E 14 W 21  
LOCATION: NENW Sec 14 - T41S - R24E  
FIELD: GREATER ANETH  
RESERVOIR: Desert Creek I

DATE COMPLETION: 5.13.63  
PRESENT STATUS: S.I.

RKB 4616'  
GL 4605'

89'

SURFACE CASING: 13 3/8" 35.6#  
H-40

INTERMEDIATE CASING: 8 5/8"  
24# J-55

PRODUCTION CASING: 5 1/2" 14#  
+15.5# J-55

1204'

PERFORATIONS: \_\_\_\_\_

5442-68

5515-21

PACKER: Baker model "A"

TENSION PKR @ 5344.77

Tubing: 2 1/2" @ 5344.77

5344'

5442- 5521

PBTD: 5604'

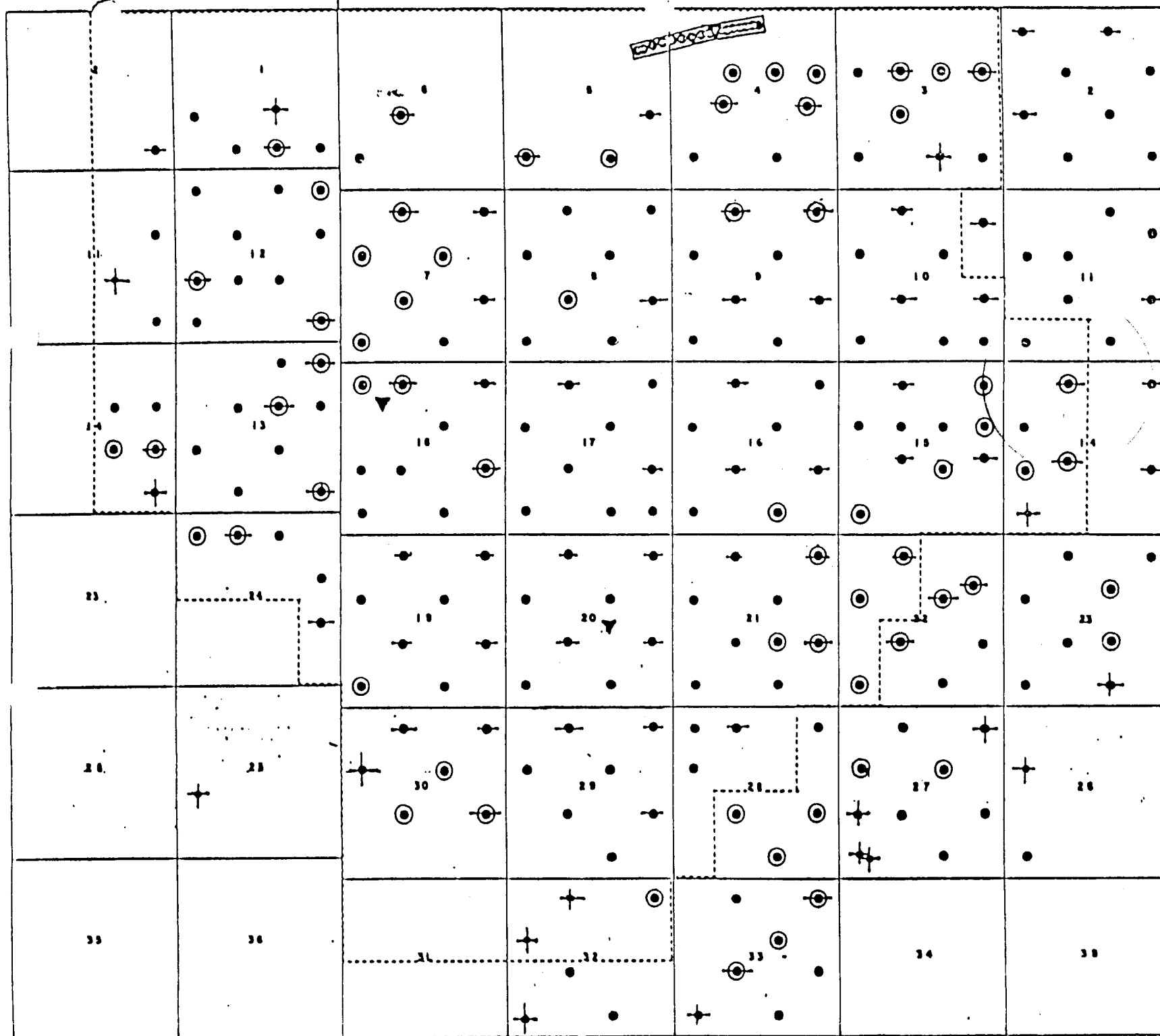
OTD: 5640'

5640'

Phillips Petroleum Company

R-23-E

R-24-E



RATHERFORD UNIT  
 SAN JUAN COUNTY, UTAH  
 2" = 1 mile  
 ACT 3-83

● oil producer  
 ◉ water injector  
 ◻ water supply  
 ▼ domestic water  
 ✕ plugged & abandoned  
 ⊗ shut in well  
 -- unit boundary

WTE INJECTION WELL

CL1-12A (REV. 1964)

## CHEMICAL &amp; GEOLOGICAL LABORATORIES

P. O. Box 2794  
Casper, Wyoming

## WATER ANALYSIS REPORT

OPERATOR Phillips Petroleum Co. DATE 5-27-83 LAB NO. W30480  
 WELL NO. Rutherford Unit LOCATION \_\_\_\_\_  
 FIELD \_\_\_\_\_ FORMATION \_\_\_\_\_  
 COUNTY San Juan INTERVAL \_\_\_\_\_  
 STATE Utah SAMPLE FROM \_\_\_\_\_

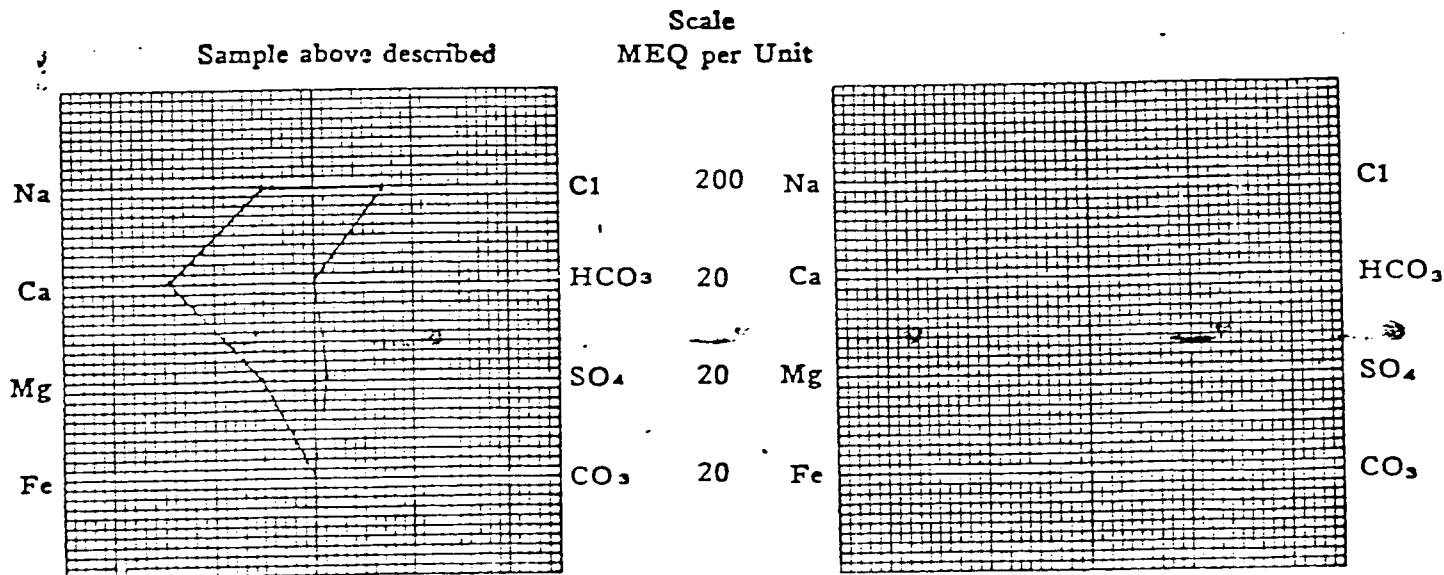
REMARKS & CONCLUSIONS: Specific gravity @68°F ----- 1.0646  
 Oil and grease, mg/l ----- 2.5  
 Aluminum (Al), mg/l ----- 0.90  
 Iron (Fe), mg/l ----- 0.3  
 Total Sulfides, mg/l ----- ND(0.1)

Cations			Anions		
	mg/l	meq/l		mg/l	meq/l
Sodium	24574	1068.99	Sulfate	1190	24.75
Potassium	396	10.14	Chloride	52000	1466.40
Lithium	-	-	Carbonate	0	0.00
Calcium	5982	298.50	Bicarbonate	190	3.12
Magnesium	1419	116.64	Hydroxide	-	-
Iron	-	-	Hydrogen sulfide	-	-
Total Cations		1494.27	Total Anions		1494.27

Total dissolved solids, mg/l ----- 85655  
 NaCl equivalent, mg/l ----- 86344  
 Observed pH ----- 7.4

Specific resistance @ 68°F.:  
 Observed ----- 0.095 ohm-meters  
 Calculated ----- 0.086 ohm-meters

## WATER ANALYSIS PATTERN



(Na value in above graphs includes Na, K, and Li)

NOTE: Mg/l = Milligrams per liter Meq/l = Milligram equivalents per liter

Sodium chloride equivalent = by Dunlap &amp; Hawthorne calculation from components

CL1-12A (REV. 1964)

## CHEMICAL &amp; GEOLOGICAL LABORATORIES

P. O. Box 2794  
Casper, Wyoming

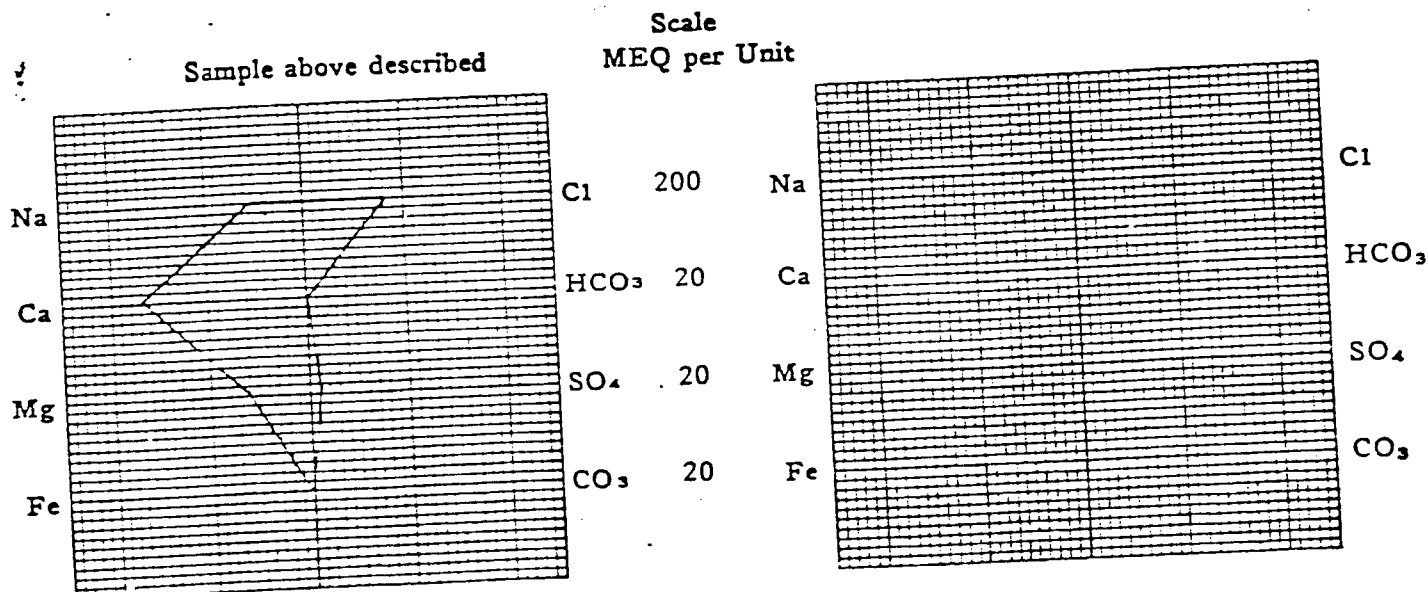
## WATER ANALYSIS REPORT

OPERATOR Phillips Petroleum Company DATE 7-22-83 LAB NO. W30636  
 WELL NO. Ratherford Unit LOCATION \_\_\_\_\_  
 FIELD \_\_\_\_\_ FORMATION \_\_\_\_\_  
 COUNTY San Juan INTERVAL \_\_\_\_\_  
 STATE Utah SAMPLE FROM Battery #1 Free water knockout  
(7-5-83) @ 10:35  
S/N 28568

## REMARKS &amp; CONCLUSIONS:

Cations	mg/l	meq/l	Anions	mg/l	meq/l
Sodium	30147	1311.38	Sulfate	1380	28.70
Potassium	429	10.98	Chloride	63000	1776.60
Lithium	--	--	Carbonate	0	0.00
Calcium	6865	342.56	Bicarbonate	151	2.48
Magnesium	1738	124.86	Hydroxide	--	--
Iron	--	--	Hydrogen sulfide	--	--
Total Cations		1807.78	Total Anions		1807.78
Total dissolved solids, mg/l		103633	Specific resistance @ 68°F.:		
NaCl equivalent, mg/l		104549	Observed	0.087	ohm-meters
Observed pH		7.3	Calculated	0.078	ohm-meters

## WATER ANALYSIS PATTERN



(Na value in above graphs includes Na, K, and Li)  
 NOTE: Mg/l = Milligrams per liter Meq/l = Milligram equivalents per liter  
 Sodium chloride equivalent = by Dunlap & Hawthorne calculation from components

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

Expires August 31, 1985  
(Other instructions on reverse side)

Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER Water Injection Well		2. LEASE DESIGNATION AND SERIAL NO. 14-20-603-370	
3. NAME OF OPERATOR Phillips Petroleum Company		4. IF NEEDLE, ALLOTTEE OR TRUST NAME Navajo	
5. ADDRESS OF OPERATOR P. O. Box 2920, Casper, WY 82602		5. OTHER ASSIGNMENT NAME SW-I-4192	
6. LOCATION OF WELL (Report location clearly and in accordance with any State or Federal law. See also space 17 below.) At surface 660' FNL, 1980' FWL (NE, NW)		6. NAME OR LEASE NAME Ratherford Unit	
7. PERMIT NO. 43-037-16408		7. WELL NO. E14W21	
8. ELEVATIONS (Show whether of, to, or from) RKB 4616'		8. FIELD AND POOL, OR WELDCAT Greater Aneth	
9. DIVISION OF OIL GAS & MINING		9. SEC. T. R. S. OR B.L. AND SHEET OR AREA Sec. 14-T41S-R24E	
10. COUNTY OR PARISH San Juan		11. STATE Utah	

RECEIVED

SEP 03 1985

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PLUG OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	(Other) <input type="checkbox"/>

(Other) Return to Injection

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

It is proposed to repair surface leaks, and return Ratherford Unit #E14W21 to Zone I Injection.

- 5-BLM, Farmington, NM
- ✓ 2-Utah O&G CC, Salt Lake City, Utah
- 1- P. J. Adamson
- 1- B. Conner, 318 B-TRW
- 1- J. R. Weichbrodt
- 1- C. M. Anderson
- 1- File RC

18. I hereby certify that the foregoing is true and correct

SIGNED <u>D. C. Gill</u>	TITLE <u>Area Manager</u>	DATE <u>August 29, 1985</u>
(This space for Federal or State office use)		
APPROVED BY <u>Leon B. Frazier</u>	TITLE <u>Vic Manager</u>	DATE <u>9-2-85</u>
CONDITIONS OF APPROVAL, IF ANY:		

\*See Instructions on Reverse Side



# CHECKLIST FOR INJECTION WELL APPLICATION AND FILE REVIEW

Operator: Phillips Well No. Rutherford Unit 14W21  
 County: San Juan T 41S R 24E Sec. 14 API# 43-037-16408  
 New Well ☐ Conversion ☐ Disposal Well ☐ Enhanced Recovery Well ☒

	<u>YES</u>	<u>NO</u>
UIC Forms Completed	<u>✓</u>	
Plat including Surface Owners, Leaseholders, and wells of available record	<u>✓</u>	
Schematic Diagram	<u>✓</u>	
Fracture Information	<u>✓</u>	
Pressure and Rate Control	<u>✓</u>	
Adequate Geologic Information	<u>✓</u>	
Fluid Source	<u>Desert Creek</u>	

Analysis of Injection Fluid	Yes <u>✓</u>	No <input type="checkbox"/>	TDS <u>85685</u>
Analysis of Water in Formation to be injected into	Yes <u>✓</u>	No <input type="checkbox"/>	TDS <u>103633</u>

Known USDW in area	<u>Ungate</u>	Depth <u>1550</u>
Number of wells in area of review	<u>7</u>	Prod. <u>5</u> P&A <u>0</u> Water <u>0</u> Inj. <u>2</u>

Aquifer Exemption	Yes <input type="checkbox"/>	NA <u>✓</u>
Mechanical Integrity Test	Yes <input type="checkbox"/>	No <u>✓</u>
Date	Type	

Comments: TOC 4316

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Reviewed by: [Signature]

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE\*  
(Other instructions on re-  
verse side)

Budget Bureau No. 1004-0135  
Expires August 31, 1985

**SUNDRY NOTICES AND REPORTS ON WELLS**

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. ☐ OIL WELL ☐ GAS WELL ☐ OTHER WATER INJECTION & WATER SUPPLY WELLS

2. NAME OF OPERATOR  
PHILLIPS PETROLEUM COMPANY

3. ADDRESS OF OPERATOR  
152 N. DURBIN, 2ND FLOOR, CASPER, WYOMING 82601

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)  
At surface

SEE ATTACHED

MAR 20 1989

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, ST, BR, etc.)

OIL, GAS & MINING

5. LEASE DESIGNATION AND SERIAL NO.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SW-I-4192

7. UNIT AGREEMENT NAME

RATHERFORD UNIT #7960041920

8. FARM OR LEASE NAME

9. WELL NO.

VARIOUS (see attached)

10. FIELD AND POOL, OR WILDCAT  
GREATER ANETH

11. SEC., T., R., M., OR BLM. AND  
SURVEY OR AREA

Sections 1 thru 30  
T41S - R23E & 24E

12. COUNTY OR PARISH

San Juan

13. STATE

Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐

FRACTURE TREAT ☐

SHOOT OR ACIDIZE ☐

REPAIR WELL ☐

(Other) ☐

PULL OR ALTER CASING ☐

MULTIPLE COMPLETION ☐

ABANDON\* ☐

CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐

FRACTURE TREATMENT ☐

SHOOTING OR ACIDIZING ☐

(Other) CHANGE OF OWNERSHIP ☒

REPAIRING WELL ☐

ALTERING CASING ☐

ABANDONMENT\* ☐

(NOTE: Report results of multiple completion on Well  
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

This is to advise all Water Injection and Water Supply Wells on the Ratherford Unit, listed on the attached sheet, were sold to Phillips Petroleum Company, effective August 1, 1985.

(former Operator - Phillips Oil Company)

3 - BLM, Farmington, NM  
2 - Utah O&G CC, SLC, UT  
1 - File

18. I hereby certify that the foregoing is true and correct

SIGNED

S. H. Oden

TITLE District Superintendent

DATE March 17, 1989

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

UTAH DIVISION OF OIL, GAS AND MINING  
CASING-BRADENHEAD TEST

OPERATOR: Phillips Petroleum  
FIELD: Greater Aneth LEASE: Ratherford  
WELL # 14W21 SEC. 14 TOWNSHIP 41S RANGE 24 E  
STATE (FED.) FEE DEPTH 5604 TYPE WELL INJW MAX. INJ. PRESS. \_\_\_\_\_  
SI 2-1-81  
TEST DATE 6/17/86

CASING STRING	SIZE	SET AT	CMT	PRESSURE READINGS	REMARKS	FUTURE
<u>SURFACE</u>	<u>13 3/8</u>	<u>89</u>			<u>SE</u>	
<u>INTERMEDIATE</u>	<u>8 5/8</u>	<u>1204</u>				
<u>PRODUCTION</u>	<u>5 1/2</u>	<u>5640</u>				
<u>TUBING</u>	<u>2 1/2</u>	<u>5344</u>		<u>Baker Model A</u>		

CASING STRING	SIZE	SET AT	CMT	PRESSURE READINGS	REMARKS	FUTURE
<u>SURFACE</u>						
<u>INTERMEDIATE</u>						
<u>PRODUCTION</u>						
<u>TUBING</u>						

CASING STRING	SIZE	SET AT	CMT	PRESSURE READINGS	REMARKS	FUTURE
<u>SURFACE</u>						
<u>INTERMEDIATE</u>						
<u>PRODUCTION</u>						
<u>TUBING</u>						

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

**SUBMIT IN TRIPLICATE**

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other Water Injector

2. Name of Operator

Phillips Petroleum Company

3. Address and Telephone No.

5525 Hwy 64 NBU 3004, Farmington, NM 87401 (505) 599-3412

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

660' FNL & 1980' FWL, NE/NW  
Sec. 14, T41S, R24E

5. Lease Designation and Serial No.

14-20-603-370

6. If Indian, Allottee or Tribe Name

Navajo Tribal

7. If Unit or CA, Agreement Designation

Ratherford Unit  
SW-I-4192

8. Well Name and No.

Ratherford Unit #E14W21

9. API Well No.

43-037-16408

10. Field and Pool, or Exploratory Area

Greater Aneth

11. County or Parish, State

San Juan, Utah

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒ Notice of Intent  
☐ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☐ Other \_\_\_\_\_
- ☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

On 6/8/92 Ken Townsend gave approval to set CIBP above fish until well could be P&A'd. Mark Ripperda gave verbal approval on 6/8/92 to set CIBP. On 6/10/92 George Robin w/EPA was notified of intent to P&A subject well and gave verbal approval.

ACCEPTED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING  
DATE: 7-16-92  
BY: [Signature]

RECEIVED

JUL 08 1992

DIVISION OF  
OIL GAS & MINING

14. I hereby certify that the foregoing is true and correct

Signed [Signature]  
L. E. ROBINSON

Title Sr. Drlg. & Prod. Engr.

Date 6-24-92

(This space for Federal or State office use)

Approved by \_\_\_\_\_  
Conditions of approval, if any:

Title \_\_\_\_\_

Date \_\_\_\_\_

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*See Instruction on Reverse Side

**RATHERFORD UNIT E14W21  
PLUG AND ABANDONMENT PROCEDURE  
JUNE 8, 1992**

**\*\* SMOKING PERMITTED IN DESIGNATED AREA ONLY \*\***

**SAFE OPERATIONS ARE OF UTMOST IMPORTANCE AT ALL PHILLIPS PETROLEUM COMPANY PROPERTIES AND FACILITIES. TO FURTHER THIS GOAL, THE PHILLIPS SUPERVISOR AT THE LOCATION SHALL REQUEST TAILGATE SAFETY MEETINGS PRIOR TO THE INITIATION OF WORK AND ALSO PRIOR TO ANY CRITICAL OPERATIONS. THESE TAILGATE SAFETY MEETINGS SHALL BE ATTENDED BY ALL COMPANY, CONTRACT, AND SERVICE PERSONNEL THEN PRESENT AT THE LOCATION. ALL PARTIES SHALL REVIEW PROPOSED UPCOMING STEPS, PROCEDURES, AND POTENTIALLY HAZARDOUS SITUATIONS. OCCURRENCE OF THESE MEETINGS SHALL BE RECORDED IN THE DAILY REPORT.**

1. Notify Mark Kelly with the BLM at least 24 hours prior to commencement of operations. Also notify Ken Lingo with the EPA to witness operations. Note: Verbal approval received by George Robin on 6/10/92.

2. MI & RU Double Drum Workover Rig.

Cement data for all plugs:

Class "G" neat  
15.8 ppg  
5.0 gal H<sub>2</sub>O/sk  
1.15 ft<sup>3</sup>/sk

3. GIH with 2-7/8" O.D. tubing and set above CIBP @ 4035'. Mix and pump a 150 sk balanced plug. Spot with 15 bbl of water. Plug will extend from 4035' to 2750'.
4. Pull 2-7/8" tubing to just above plug @ 2750'. Mix and pump a 160 sk balanced plug. Spot with 7 bbl of water. Plug will extend from 2750'-1400'. Pull tubing to 1500' & reverse clean. COOH with workstring.
5. MI & RU Basin Perforating (505 327-5244). Utilizing Pack-Off, GIH with circulation perforating gun and perforate at 1480'.
6. Mix and pump 576 sxs (60% excess in annulus) into 5-1/2" casing through perforation and into 8-5/8" x 5-1/2" annulus. Annulus and casing plugs should extend to surface.
7. Cut off casing at bottom of cellar or 3 feet below ground level, whichever is deeper. Erect P&A marker, fill cellar, clean, and restore location to BLM specifications which include reseeding the location at the appropriate time.

774

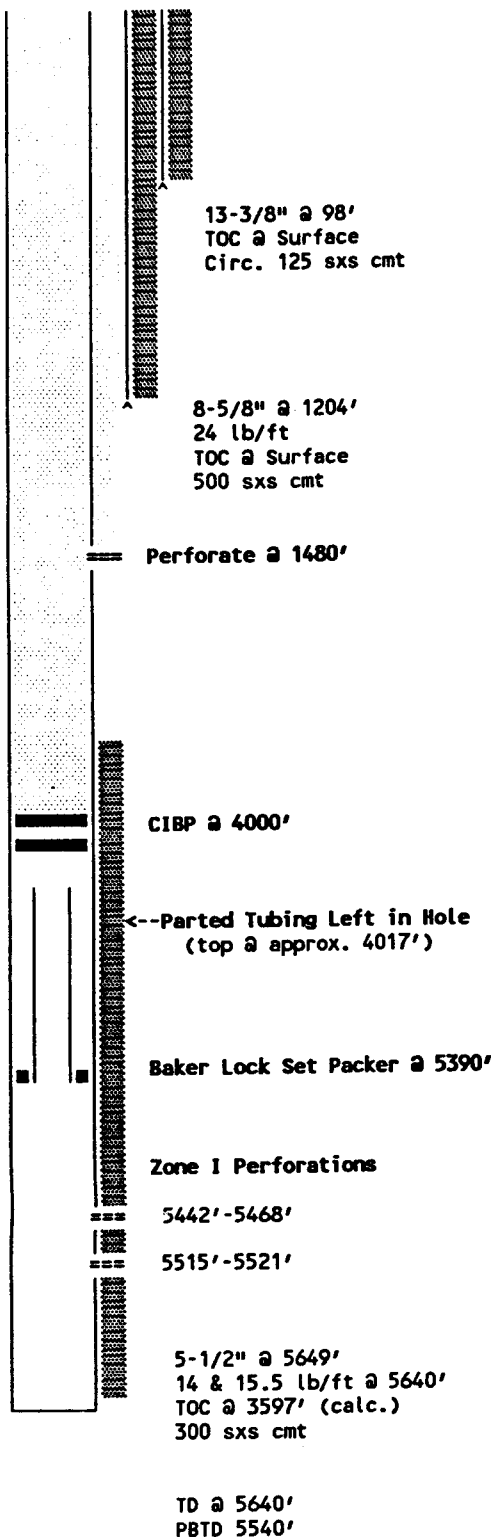
PHILLIPS PETROLEUM COMPANY--FARMINGTON A

RKB @ 4616  
 CNF @  
 GL @ 4605

Date: June 15, 1992

Lease & Well No.: Ratherford Unit # E14W21  
 Legal Description: 660' FNL, 1980' FNL, Section 14, T41S, R24E  
 County: San Juan State: UT  
 Field: Greater Aneth  
 Status: Shut in  
 Tbg.: 2-7/8" 6.5 lb/ft (top approx 4017')  
 Recommended Procedure: Plug and Abandon

Date Drilled: 5/5/59  
 Hole/Casing Condition: 7/92 Moved on the subject well due to suspected tbg leak. Tbg parted @ approx. 3921' while trying to pull packer. Fishing operations were initiated using mills and overshots. Total progress was 101' in four days. Installed CIPB @ 4000'.



Existing Cement

Proposed Cement

MA

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

**SUBMIT IN TRIPLICATE**

1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other Wtr Injector	5. Lease Designation and Serial No. 14-20-603-370
2. Name of Operator Phillips Petroleum Company	6. If Indian, Allottee or Tribe Name Navajo Tribal
3. Address and Telephone No. 5525 Hwy 64 NBU 3004, Farmington, NM 87401 (505) 599-3412	7. If Unit or CA, Agreement Designation Ratherford Unit SW-I-4192
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 660' FNL & 1980' FWL, NE, NW Sec. 14, T41S, R24E	8. Well Name and No. Ratherford Unit #E14W21
	9. API Well No. 43-037-16408
	10. Field and Pool, or Exploratory Area Greater Aneth
	11. County or Parish, State San Juan, Utah

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other Temp. Abandoned
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

June 1, thru June 9, 1992

On June 8, 1992 Ken Townsend gave approval to set CIBP above fish until well could be P&A'd. On same date verbal okay was received from Mark Ripperda to set CIBP. MI & RU equipment. ND WH and NU BOP. COOH w/injection string. Milled and fished out tbg to 4050'. Ran CIBP and set @ 4035'. Ran tbg back in well. ND BOP and NU WH and RD. Waiting on P&A.

**RECEIVED**

JUL 08 1992

DIVISION OF  
OIL GAS & MINING

14. I hereby certify that the foregoing is true and correct

Signed [Signature] Title Sr. Drlg. & Prod. Engr. Date 6-24-92

(This space for Federal or State office use)

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_  
Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*See Instruction on Reverse Side

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

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SUBMIT IN TRIPLICATE

RECEIVED

AUG 03 1992

1. Type of Well  
☐ Oil Well ☐ Gas Well ☒ Other Injector

2. Name of Operator  
Phillips Petroleum Company

3. Address and Telephone No.  
5525 Hwy 64 NBU 3004, Farmington, NM 87401 (505) 599-3412

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
660' FNL & 1980' FWL, NE/NW  
Section 14, T41S, R24E

5. Lease Designation and Serial No.

14-20-603-370-A

6. If Indian, Allottee or Tribe Name

Navajo Tribal

7. If Unit or CA, Agreement Designation

Ratherford Unit  
SW-I-4192

8. Well Name and No.

Ratherford Unit #E14W21

9. API Well No.

43-037-16408

10. Field and Pool, or Exploratory Area

Greater Aneth

11. County or Parish, State

San Juan, Utah

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input checked="" type="checkbox"/> Other P&A	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

7-21-92 thru 7-24-92

MI & RU Montezuma WS Rig #31. Bled well down. NDWH and NU BOP. COOH w/injection string. MIRU Basin Perforating. Perf'd w/4 spf (4" holes) from 4000'-4001'. Could not pump into perfs. RD Basin. RU DS. Spotted 160 sx Class G cmt w/2% CaCl<sub>2</sub> from 4024'-2692' w/15 BFW. Rev. circ cmt w/24 BFW. Spotted 160 sx Class G cmt w/2% CaCl<sub>2</sub> from 2696'-1353' w/7.75 BFW. Rev circ'd cmt out from 1486'. Basin Perforators perf'd w/4 spf @ 1486'. D/S pmp'd 510 sx Class G cmt mixed @ 15.8 ppg, circ 5 bbl cmt out of bradenhead vlv leaving cmt inside & outside the csg from surface to 1486'. ND BOP and washed out cmt & inst upper tree assy on tbh head. RD & MO. (Set CIBP @ 4035')

P&A witnessed by Jim Walker w/Navajo EPA and BLM representative. The casing has been cut off and a permanent marker installed.

14. I hereby certify that the foregoing is true and correct

Signed

*[Signature]*

Title Sr. Drlg. & Prod. Engr.

Date 7-30-92

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*See Instruction on Reverse Side